KHRISTOV, Kor. K.

Country:

Bulgaria

Academic Degrees: not indicated

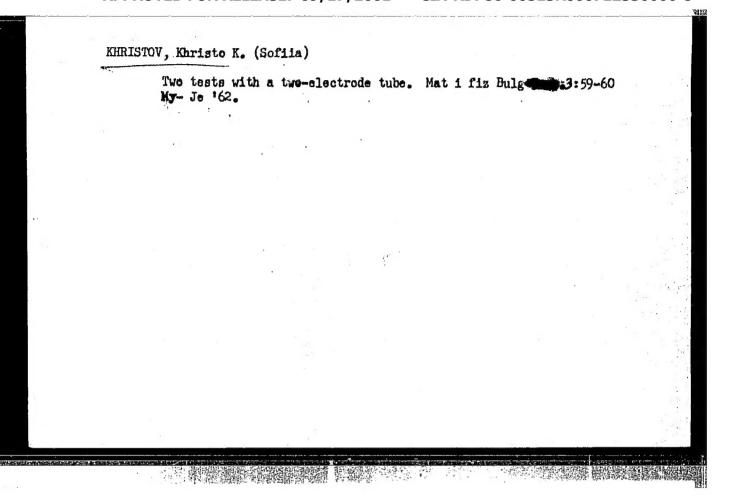
Affiliation: not indicated

Source: Sofia, Matematika i Fizika, No 2, Mar/Apr 61, pp 63-64

Data: "Experiments with Electric Indicator EM 80."

Nomogram for determining the relative weight of the air. Min delo 16 no.11:38 '61.

(Air) (Nomography)



Demonstrating the single-phase rectification of an alternating current with a two-electrode tube. Mat i fiz Bulg 5 no.3:58-59 My-Je '62.

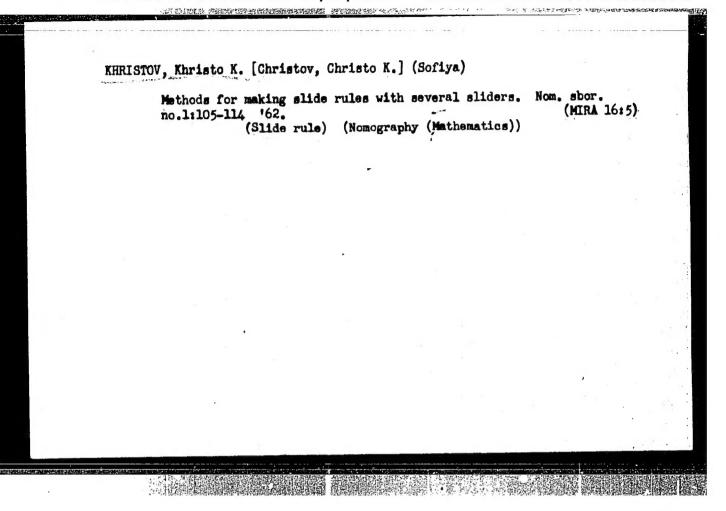
KHRISTOV, Khristo Kostov (Soflia) Obtainment of absorption spectra with sodium vapor. Mat i fiz Bulg 5 no.4:56-57 J1-Ag '62.

KHRISTOV, Khristo K. (Sofiia)

Two demonstrations of the vibration of tuning fork. Mat i fiz Bulg 5 no.5:57-58 S-0 '62.

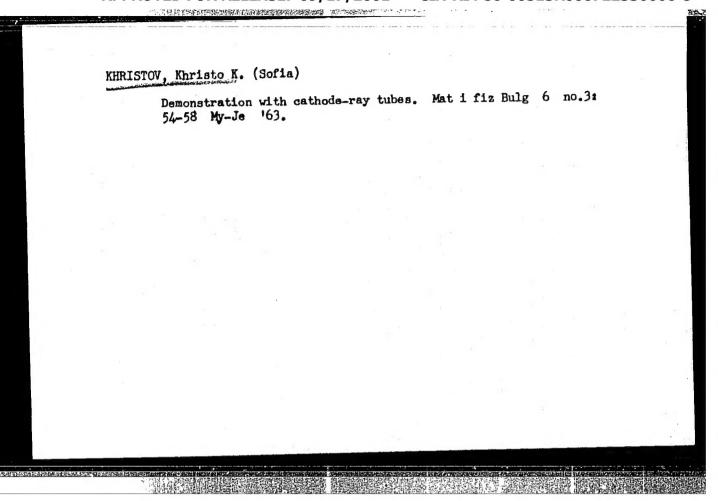
KHRISTOV, Khristo K. (Sofiia)

Some experiments with meon lamps. Mat i fiz Bulg 5 no.6:55-56 N-D
162.



Demonstration of the Magnus effect. Mat i fix Bulg 6 no.1:53
Ja-F'63.

1. Chlen na Radaktsionnata kolegiia, "Matematika i fizika".



KHRISTOV, Khristo K. (Sofia)

Experiments with the UKV-generator (λ=2m.) Mat i fiz Bulg 7 no. 2: 59-60 '64.

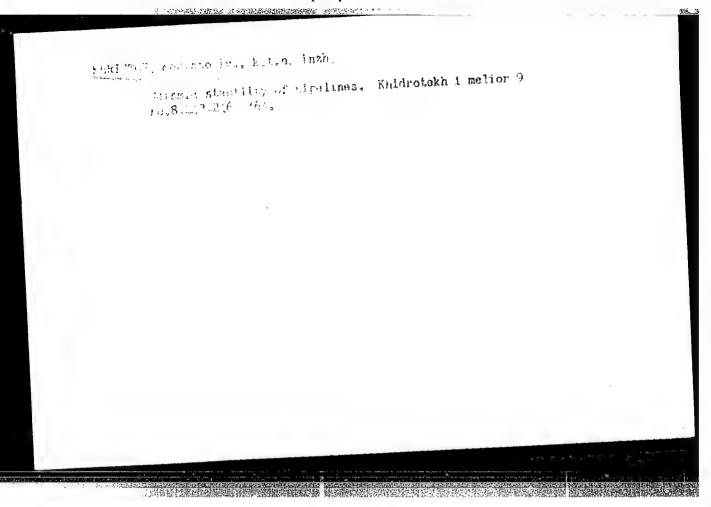
1. Member of the Board of Editors, "Matematika i fizika."

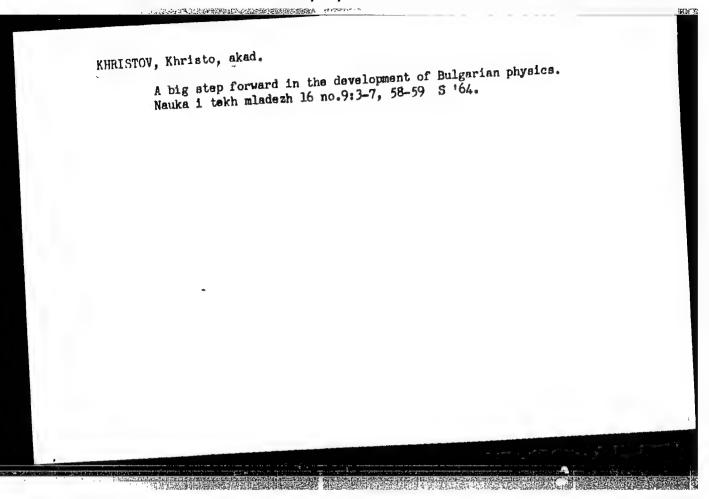
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KHRISTOV. Khristo K., inzh.

Retermination of the slope safety coefficient. Khidrotekh.
i melior 9 no.5:133-134 %





KHRISTOV, Khristo K. (Sofiya)

Nemographic method for finding the extreme values of a certain function of an integral argument. Nom. abor. no.3:47-51 '65.

(MIRA 18:10)

Complement of the temperature of

KHRISTOV, Kh. L.

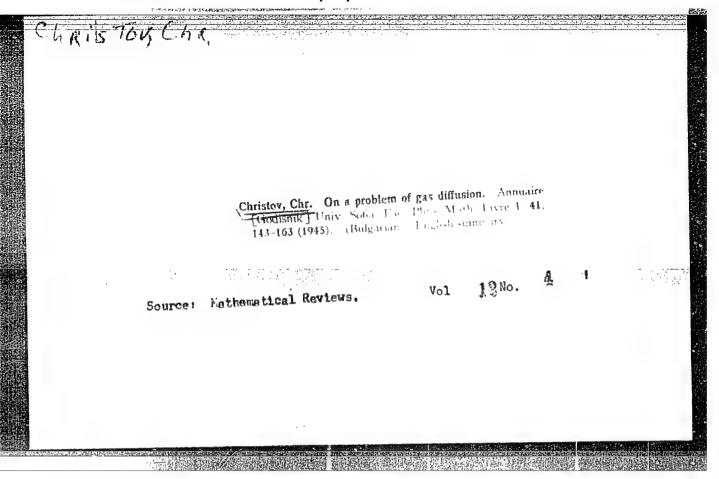
Open correction of inadequate artificial pneumothorax. Isv. Mikrob. inst., Sofia no.8:587-598 1957.

1. Purva tuberkulosna bolnitsa na sgns (gl. lekar: d-r A. Kis'ova)
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surg. correction of inadequate pneumothorax (Bul))

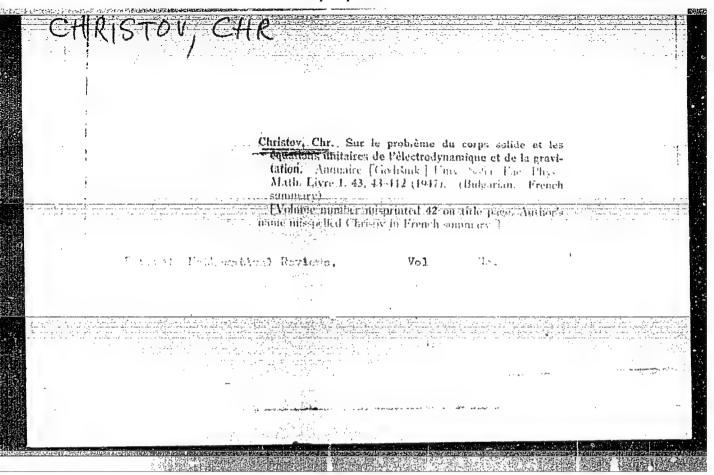
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Source: Mathemat	ical Reviews.	Wol 12 No.		
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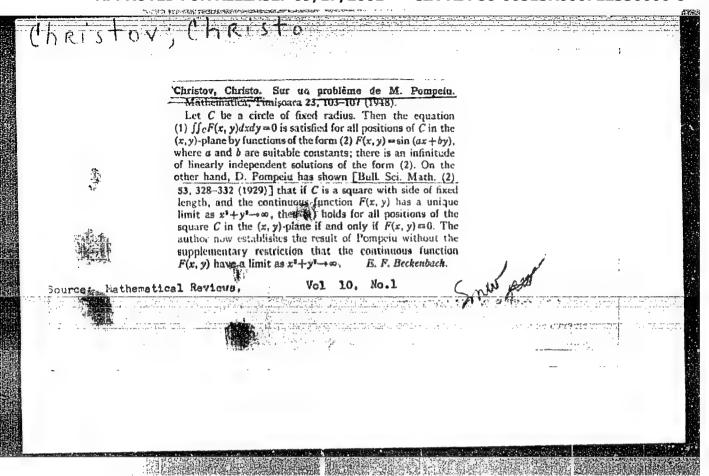
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Source: Mathe	matical Reviews.	Vol II	No. 4	•
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Diahov, E., und Christov, Chr. Bemerkungen zu der Arbeit "Einige Problème noblit mehtgleichmissig eespanave chene Membranen" von L. Hiefl. Annuaire [Codišnik] Univ. Sofia. Fac. PhysMath. Livre 1, 30, 417–429 (1943). (Bulgarian. German eummary)	
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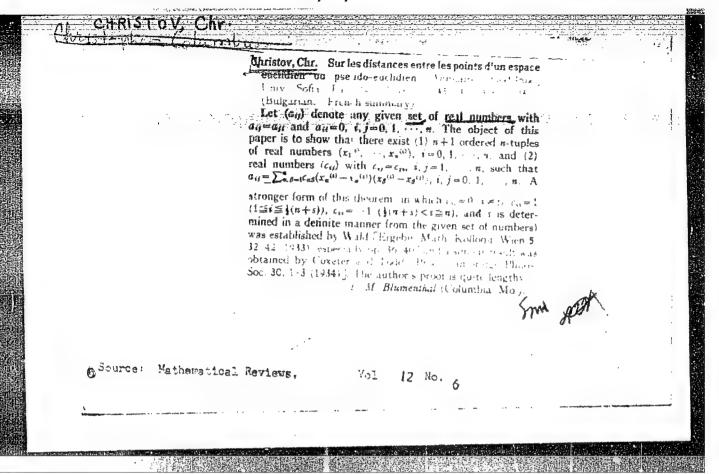


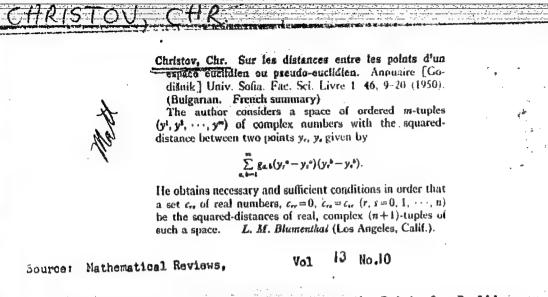
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Christov, Chr. Sur une equation fonctionnelle de M. L.	
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Phys. Math. Livre 1, 42, 45-53 (1946). (Polgarian.	
French -nonuary)	,
M. L. Tchakalov a proposé le problème suivant: trouver	
la forme la plus générale de la fonction $f(x)$ analytique	
dans l'intervalle $0 < x < x$, satisfaisante à l'équation fonc-	
tionnelle $f(\alpha) + f(\gamma) = 2f(\beta)$, α , β , γ étant les angles d'un	i.
triangle, dont les côtés forment une série arithmétique.	
Nous avons démontré que cette fonction est donnée par	
l'expression ***	
$f(x) = c + \sum_{n=1, k, \dots}^{\infty} c_n T(v^n) \approx c \sum_{k=k, 1, \dots}^{\infty} S(v^k),$	
$v = (3^{-1} \cot \frac{1}{2}x - 1)/(3^{-1} \cot \frac{1}{2}x + 1)$	į.
$=\sin\left(\tfrac{1}{6}x-\tfrac{1}{6}x\right)/\sin\left(\tfrac{1}{6}x+\tfrac{1}{2}x\right),$	
où c est une constante arbitraire; T(v) la fonction spéciale	<u>.</u>
$T(v) = v + v^2 + v^4 + \cdots + v^{p^k} + \cdots$ $ v < 1$; $S(v)$ une function	
impaire soumise à la condition unique d'être analytique dans	
l'intervalle →1 < v < 1; et c ₁ , c ₁ , c ₂ , ··· les coefficients de son	
développement en série de Taylor, S(v) = cuv + cuv + cuv +	
convergente dans le voisinage de l'origine $v=0$.	
Author's summary.	MAN
Source: Mathematical Reviews, 1945, Vol. 9, No. 1	
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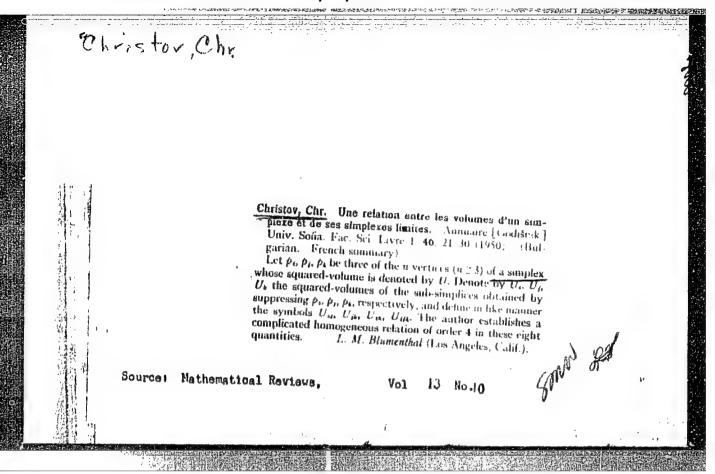


CHRISTOV, CI	he.	
	Christov, Chr. Sur l'équation intégrale genéralises de M. Pompelu. Annuaire [Cost.tail. 1] Livre 1 45, 167 178 1949 11 summary 1 Let fix, y) be continuous in 12 decente de 15, and he 15, decente de	
	mining the functions $f(\mathbf{x}, \mathbf{y})$, continuous in F' for which I find $f(\mathbf{x}, \mathbf{y})$ deficiently in the first shows that if D is a parallelegram $F(\mathbf{x}, \mathbf{y})$ and earlier result [Mathematical Parallelegram 12] and $F(\mathbf{x}, \mathbf{y})$ are extends an earlier result [Mathematical Parallelegram 13].	
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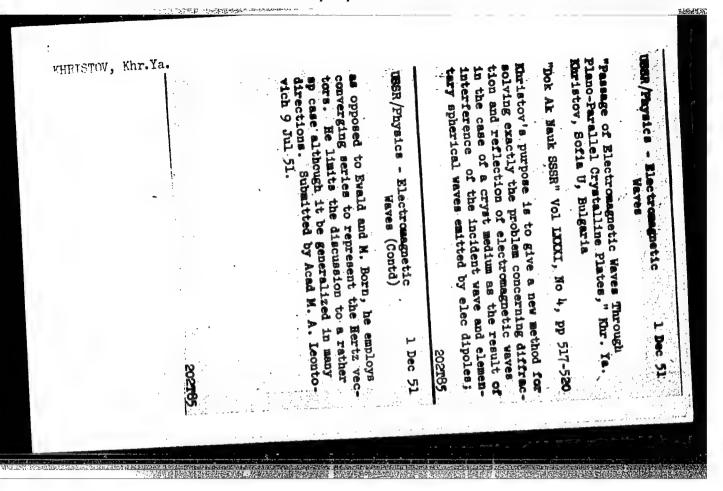


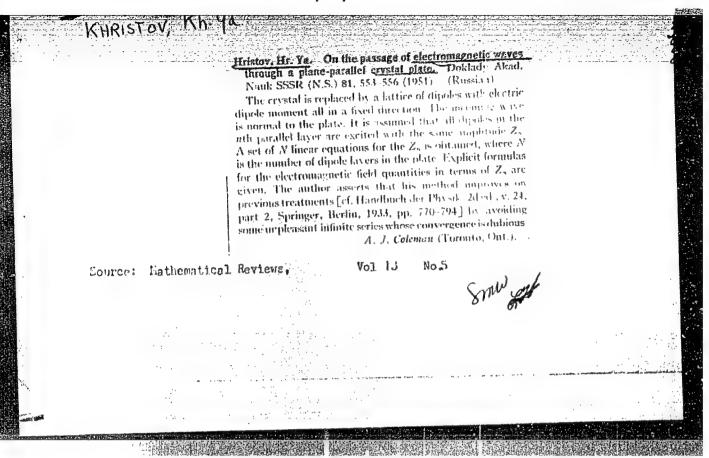


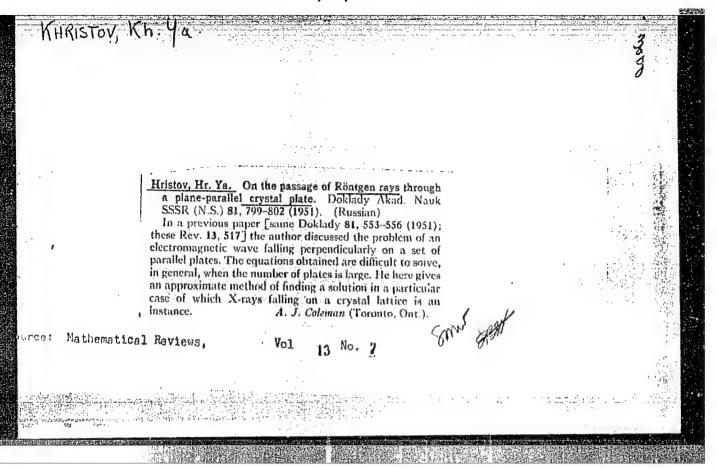
CHRISTOV, CHR.: On the Distances Between the Point of a Euclidean or Pseudo-Euclidean Space



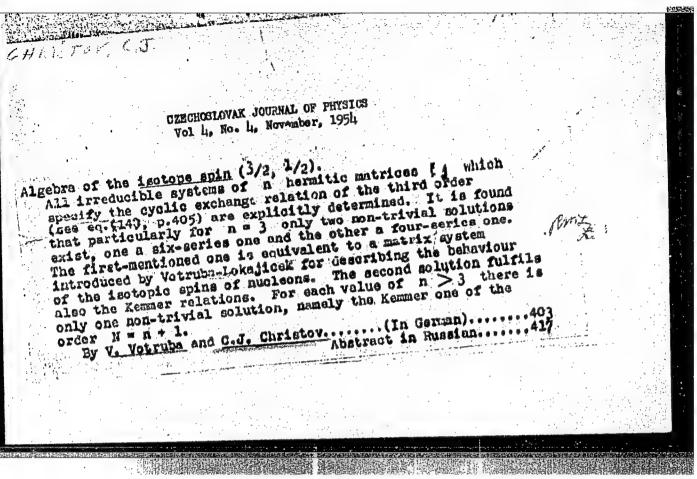
KHRISTOV, Kh Ya-Hristov, Hr. Ya. On a relation between the volume of a simplex and the volumes of its boundaries. Doklady Akad. Nauk SSSR (N.S.) 73, 25-28 (1950). (Russian) Let m points a_1, \dots, a_m in E_n be given which he in no $E_{\tau-t}$. Let U denote the volume of the simplex spanned by the a_n and U_p , U_{per} U_{per} the volumes of the (m-2)-, (m-3)-, (m-4)-simplices obtained by leaving out a_p , a_p and a_q , a_p and a_q and a_t , respectively, where the volume of a 0-simplex is put equal to 1, and the volume of an empty simplex equal to 0. Then the following relation holds: $\begin{array}{l} (m-1)^4(m-3)^{-4}U^2U^3_{pq\ell}+4(m-2)^2(m-3)^{-2}U_pU_qU_4U_{pq\ell}\\ +4(m-1)^2(m-2)^{-2}UU_{pq}U_{q\ell}U_{tp}\end{array}$ $+4(m-1)^{*}(m-2)^{*}UU_{pq}U_{qq}U_{pp} - (U_{p}U_{qq}+U_{q}U_{pp}+U_{q}U_{pq})^{2} + 2(U_{p}^{*}U_{qq}+U_{q}^{*}U_{pq}^{*}+U_{q}^{*}U_{pq}^{*}) + 2(m-1)^{*}(m-3)^{-2}UU_{pq}(U_{p}U_{q}+U_{q}U_{p}+U_{q}U_{p}+U_{q}U_{pq}) = 0.$ H. Busemann (Los Angeles, Calif.). Source. Lathematical Reviews. Vol 12, %.







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KHRISTÖY KHR. YA.			-		238T105	
	2381105		the incident wave is long in comparison with the dimensions of the crystal square; namely, the case which holds for light rays. The case for small wavelengths has already been solved by the author (ibid. 81, No 4 and 5, 1951). Submitted by Acad M. A. Leontovich 28 Jun 52.	Finds an approximate soln of the problem of the passage of an electromagnetic wave incident normally to a plane-parallel crystal plate (rhombic system) under the assumption that the length of	"The Passage of Rays of Light Through a Plane-Parallel Crystalline Plate," Khr. Ya. Khristov, Bulgarian Acad Sci, Sofia, Bulgaria "DAN SSSR" Vol 85, No 6, pp 1269-1272	USBR/Physics - Crystals



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Category : BULGARIA/Atomic and Molecular Physics - Gases

CONTROL DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF

D-7

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 914

Author : Khristov, Khr., Nikolov, N.

Title : Determination of Certain Probabilities and Average Values Pertaining to

Impacts and to Free Paths Gas Molecules.

Orig Pub : Izv. b"lgar. AN Otd. fiz.-Matem. i tekhn. n., ser. fiz., 1955, 5, 27-36

Abstract: The author determines the probability P(u,v) dtdv that a gas molecule moving

with a given velocity u will experience within a short time interval dt an impact from another molecule, so that its molecule will lie after the impact in the interval v, v + dv. The gas molecules are assumed to be ideally smooth spheres with no interaction force between them except for the elastic impact forces, and that the gas medium is macroscopically stationary and has a given constant temperature T and density n (number of molecules per unit volume).

constant temperature T-and density \underline{n} (number of molecules per unit volume). The result is as follows:

 $P(w,v) dt dv = \frac{\pi a^2}{\pi c w} \left(-\frac{(vw)^2}{c^2w^2} dt dv \left(w = v - u \right) \right)$

where a is the diameter of the molecule, $c = \sqrt{2kT/m}$ (m is the mass of the molecule, k is the Boltzmann constant)—is a measure of the average molecule

Card : 1/2

Category : BULGARIA/Atomic and Molecular Physics - Gases

D-7

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 914

velocity, and n* is the gas density at a distance a from the center of any of its molecules. Using the Bogolyubov method, an expansion n* = n $/1 + (5\pi/16)$ a $^{3n} + \dots /7$ is derived for n*. Certain applications of the above equations are given. Exact expressions are derived for the probability that a molecule will receive an impact in the interval dt regardless of the velocity after impact, and that the duration and the length of the mean free path of the molecule will be contained in a given interval. The author also establishes the average number of impact per unit time in a unit volume, the average duration and the mean free path for any gas density. The probability P(u,v) dt dv is also of importance in the solution of several problems in the theory of fluctuation in gases.

Card : 2/2

WhitsToly Ahr.

BULGARTA/Atomic and Molecular Physics 7/2001 CIA-RDP86-00513R000722330006-8

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 12997

Author : Khristov Khr., Nukolov, N.

Inst : Not Given

Title : Remark Concerning the Work "Establishment of Certain Probabilities and Mean Values Pertaining to Collisions and

Free Paths of Gas Molecules."

Orig Pub : Izv. B"lgar. AN. Otd. fiz.-matem. i tekhn. n., cer. fiz.,

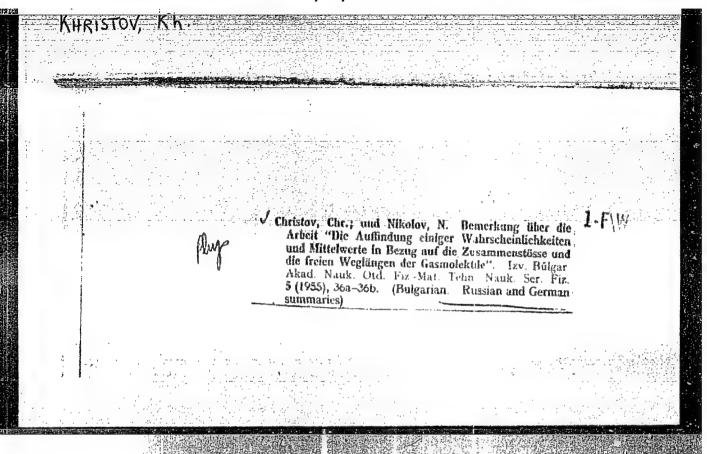
1955, 5, 35-36.

Abstract: It is noted that the fundamental equation of this work (Referat Zhur Fizika, 1957, No 1, 914) are analogous to the formula obtained in one of the works by Jang (Jang, L.M., Proceedings Royal Society, 1949, 198, 94). Several advantages

of the formula by the authors are indicated.

Card : 1/1

25



KHIKIDIOV,

Category : BULGARIA/General Problems - Fhilosophys. Hothodology of AA-2 Science.

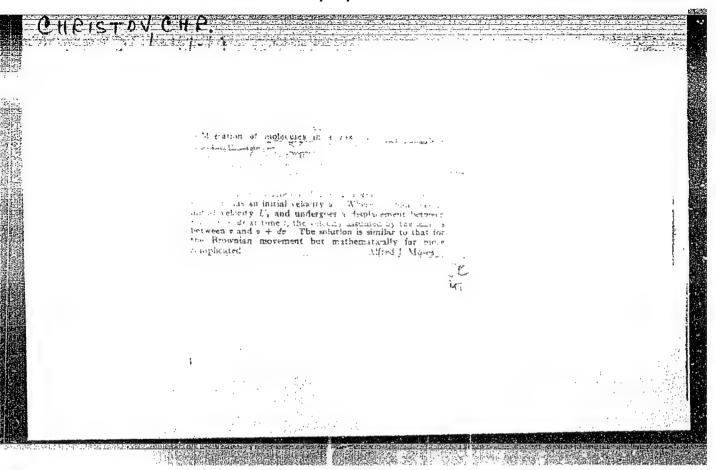
Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 5435

Author : Khristov : Concerning Various Motheds of Deriving the Lew of Conserved tion of Energy.

Orig Pub : Izv. B"lgar. AN. Otd. fiz.-matem. i tekhn. n., εer. fiz., 1955, 5, 231-283

Abstract: A critical analysis of the methods used to prove the law of conservation of energy leads to the conclusion, that all these methods are based on three premises: 1) the concept of energy, 2) experimental verification, 3) the principle of the equivalence of action as a particular form of the principle of causality. A successive application of these premises makes it possible to consider the concept of work and heat as logically equivalent and initiates the derivation of the law of conservation of energy with more general premises, logically clearer, than is usual, providing in addition a clearly defined

Oard : 1/2



KHRISTOV, Khr. Ya. Approximate expression of Green's function in the kinetic equation for neutrons. Dokl. AN SSSR no.6:1197-1200 D 156. (MIRA 10:3) 1. Predstavleno akademikom W.W. Bpgolyubovym. (Moutrons) (Potential, Theory of)

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CIA-RDP86-00513R000722330006-8

KHRISTOV Kh Ya.

SUBJECT

USSR / PHYSICS

CARD 1 / 2

PA - 1910

AUTHOR

CHRISTOV, CHR. JA.

TITLE

On GREEN'S Function of the Transport Equation of Neutrons.

PERIODICAL Dokl. Akad. Nauk, 111, fasc. 5, 981-984 (1956)

Issued: 1 / 1957

The transport equation for the diffusion of neutrons in any slowing down, multiplicating, and absorbing medium is an integrodiffrential equation for the density $\nabla(t,\vec{r},\vec{v})$ of neutrons in the space of the coordinates \vec{r} and the velocity \vec{v} at any point of time t at any density $D(t,\vec{r},\vec{v})$ of the primary neutrons. Assuming that $W(s,\vec{q},\vec{u},t,\vec{r},\vec{v})$ be GREEN'S function of this equation, it is shown here that W satisfies two integral equations under very general conditions with respect to the processes which are possible in the case of neutrons. These equations are suited for the description of scattering by nuclei the mass of which is not much greater than the mass of the neutron if not only the fission of nuclei by thermal but also by fast and intermediary neutrons is to be taken into account. The following elementary processes are considered here: The radioactive decay of the neutron; the scattering of the neutron on the occasion of collisions with the particles of the medium, as e.g. with nuclei; the absorption of a neutron by the nuclei of the medium accompanied by the production of radioactive nuclei which may result in delayed neutrons; the absorption of a neutron with production of radioactive nuclei which produce delayed neutrons and with the emission of one or several neutrons; the steady

Dokl. Akad. Nauk, 111, fasc. 5, 981-984 (1956) CARD 2 / 2

PA - 1910

modification of the velocity of the neutron between two processes such as have hitherto been enumerated. Such a steady modification of neutron velocity can be caused by collisions of the neutron with certain particles of the medium as e.g. with the electrons of the atom shells. The motion of neutrons is investigated in the classical manner, and collisions of neutrons among one another and with the products of their interaction with the medium are neglected on this occasion. Thus the here investigated slowing-down-, multiplication-, and absorption process of neutrons is a certain continuous MARKOV chain.

At first several new quantities (probabilities) are defined and then two equations are written down for the required function W. Also the ordinary transport-theoretical integro-differential equation corresponding to these two equations is written down. Above all, the following case is investigated: The properties of the medium are independent of r and t, the motion of the neutrons is homogeneous and rectilinear between the aforementioned processes, and every nucleus is able to give up only a delayed neutron which is emitted on the occasion of its first radioactive decay. The aforementioned equations are specialized for this case.

INSTITUTION:

KHRISTOV, Kh. Ya.

SUBJECT USSR / PHYSICS

CARD 1 / 2

PA - 2000

AUTHOR

PERIODICAL

CHRISTOV, CHR.JA.

TITLE An Approximated

An Approximated Expression for GREEN'S Function of the Kinetic

Equation of Neutrons.

Dokl. Akad. Nauk 111, fasc. 6, 1197-1200 (1956)

Issued: 2 / 1957

The present work makes use of the denotations and results of a previous work by CHR.JA.CHRISTOV, Dokl.Akad.Nauk 111, Ng 5 (1956). The equation for the required GREEN'S function mentioned there can be reduced to the form $W - A - \Phi W = 0$. For the free term and for the integral operator Φ explicit expressions are given. The following approximation solution is obtained by iteration: $W_n = A + \Phi A + \Phi^2 A + \dots + \Phi^{n-1} A + \Phi^n W_0$. Here W_0 denotes the approximated function W_0 , which serves as a basis. From the physical significance of the terms of the equation just mentioned it can immediately be seen that this sequency converges with increasing n in the case of an arbitrary selection of W_0 . Furthermore, this approximation is good only if $t \leq n\bar{t}$ is true, where \bar{t} is the average time between two partial acts of the process under investigation. The present work intends to define the function W_0 in such a manner

that it represents the greatest approximation of W for large t, and that W_n furnishes a good approximation to W already in the case of a small n and any t. This ansatz for W_0 is here explicitly given and turns out to be a generalization

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D-3

HUNGARY/Atomic and Molecular Physics - Statistical Physics

Thermodynamics.

Abs Jour

: Ref Zhur - Fizika, No 1, 1958, 708

Author

: Christov, Chr.

Inst

: Institute of Theoretical Physics, Bulgarian Academy,

Sofia, Bulgaria.

Title

: Motion of Molecules in Gas. II.

Orig Pub

: Acta. phys. Acad. sci. hung., 1957, 7, No 1, 51-66

Abstract

The author gives several applications of the formulas, derived in part I of his work (Referat Zhur Fizika, 1957, No 4, 8970). The average acceleration of a molecule moving with a given velocity is calculated, and the result is independent of the assumption made that the states of the molecules from a Markov chain. The author nest finds an expression for the coefficient of

Card 1/2

Abstract

The results obtained by the author in two earlier works

for pure gases (Referat Zhurnal Fizika, 1957, No 4, 8970; APPROVER FOR REDEASE: 09/10/1/20010 in GLA: REP86: 00513R000722330006-8

gas mixture. The author introduces the concept of the probability of a definite spatial displacement and a definite change in velocity of the molecules, belonging to the gas mixture. This probability satisfies an integral

Card 1/2

HUNGARY/Atomic and Molecular Physics - Statistical Physics Thermodynamics.

D-3

Abs Jour

: Ref Zhur - Fizika, No 1, 1958, 709

equation, whose solution is sought in the form of a series, and two differential equations. The author next gives several examples of the application of the derived formulas. In particular, he derives the coefficient of dynamic friction for Brownian movement, which does not coincide in the general case with the expression given by the Stokes law. Under certain conditions (low concentration of Brownian particles and their small dimensions compared with the mean free path), the author's expression goes into the Stokes expression.

KHRISTOV, KHR, YA.

AUTHOR:

Khristov, Khr.Ya.

56-3-20/59

TITLE:

On the Green's Function of the Cascade Kinetic Equations

(O funktšii Grina kineticheskikh uravneniy laviny)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 3,

pp. 683-695 (USSR)

ABSTRACT:

Cascades, consisting of n-types Aj (j = 1, 2, ..., n) and of K particles, which are moving in the given medium, colliding with mediumpparticles and are being scattered and absorbed on this occasion with new particles being formed as consequence of the collision, are dealt with. There is the condition that the properties of the medium observed depend on the position as well as on the time. Furthermore the density of the cascades should be small so that the particles of the cascades do not collide with one another. The author also assumes that between two collisions every particle is not coupled with the motion of the rest of the particles of the cascade.

Bunctions are introduced which represent the distribution of the particles of any type according to coordinates and velocity for any time. These functions are represented in form of integral equations.

card 1/2

On the Green's Function of the Cascade Kinetic Equations. 56-3-20/59

An approximative solution for the integral equations deduced is given for the case that the medium is homogeneous and that it does not change with regard to time, The best approximation is achieved by stepwise integration. There are 12 Slavic references.

ASSOCIATION: Moscow State University (Moskovskiy Gosudarstvennyy universitet)

SUBMITTED:

March 1, 1957

AWAILABLE:

Library of Congress

Card 2/2

KHRISTOV, KAR. YA.

56-4-8/54

AUTHOR:

Khristov, Khr. Ya.,

TITLE:

On the Distribution of Cascades in a Multi-Layer Medium. (O ras-

prostranenii laviny w mogosloynoy srede)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4, pp. 877-

-882, (USSR)

ABSTRACT:

The cascades consisting of various types of particles are theoretically treated, namely when the particles are distributed in a medium which is composed of homogeneous layers R^{λ} . The boundyries of the layers are movable. The particles of the cascades impinge upon particles of the medium, on which occasion they are absorbed or scattered. But there may also develop particles. The function $\mathtt{W}^{\mathcal{V}}$ (it indicates the velocity distribution and the local distribution of the particles of every type) is sought for the assumption that the function VN (it indicates the distribution of the particles in every $R^{\mathcal{N}}$ layer, in case they would take up the entire space) is known. Infinite, well diverging integral series are given for the sought function w. The integrands are certain derivatives of the function V. There are 8 Slavic references.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstennyy universitet)

May 4, 1957 SUBMITTED:

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA RELEASE: 09/17/2001 Clascades in a Multi-Layer Amedia and 22330006-8' Eibrary of Congress AVAILABLE:

Card 2/2

56-4-9/54

On Correlations in the Distribution of Cascade Particles

ASSOCIATION: Moscow State University

(Moskovskiy gosudarstvennyy universitet)

SUBMITTED: March 1, 1957

AVAILABLE: Library of Congress

Card 2/2

KAPPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8'

AUTHOR:

Discussion of the book by WALTHER THIRRING "Introduction into Discussion of the book by WALTHER THIRRING "Introduction into Quantum Electrodynamics", Vienna, Franz Deuticke, 1955. (VAL'TER Quantum Electrodynamics, Vienna, Franz Deuticke, 1955. (VAL'TER Quantum Electrodynamics), Vienna, Vienna

PERIODICAL:

ABSTRACT:

The following are the most important points of this discussion: Unlike all other existing monographies on quantum electrodynamics this book is very short (VIII + 122 rather small pages). Formulae contained in the text are comparatively simple. In spite of this, the material dealt with is very voluminous. In the introduction some formulae on classical relativistic electrodynamics are given and some phenomena in nuclear physics are sketched out. The first part of the book, "The Quantization of Free Fields", (39 pages), successfully formulates the general principles of the quantum theory of the field, discusses the most important relations of the second quantization, as well as the connection between spin with statistics. Further, some concrete fields (scalar, vectorial, spinorial) and vacuum fluctuations are investigated. The second part "Fields with Interaction" deals with general equations of quantum electrodynamics and their solution by means of the perturbation method. The scattering matrix is given and several types of EYNMAN ediagrams are explained.

Card 1/2

KHRISTOV, Khr.

20-2-14/50

AUTHOR:

Khristov, Khr. Ya.

TITLE:

On the Diffusion of Charged Particles in a Homogeneous Electromagnetic Field (O diffuzii zaryazhennykh chastits v odnorodnom elektromagnitnom pole)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 2, pp. 213 - 216 (USSR)

ABSTRACT:

The author investigated the diffusion of molecules, neutrons and avalanche particles in three previous papers (ref. 1-3) and derived avalanche particles in three previous papers (ref. 1-3) and derived an equation for the probability V (s, q, u, t, r, v) dr dv. Here the probability is concerned that a particles of the type i, which at the moment s, has the position of and the velocity u; at the moment t includes a particle of the type j with a radius vector located between F and F + dF, and a velocity between v and v + dv. The present paper simplifies the equation for the determination of V somewhat, so that the problem is simplified a little. As the avalanche in the case investigated here consists of particles of one and the same type, n = 1 is true and the indices i, j no longer exist. Further, it may be assumed, without general restriction that the magnetic field is directioned in the x-axis and the electric field E is located in the x, y plane. Also the homogeneity of the medium simplifies the problem. The integral equation for V is given

Card 1/2

KHRISTOV, Khr. IA. (Sofiia)

Impressions of the development of the physical sciences in India. Spisanie BAN 5 no.2:45-50 °60. (EEAI 9:11)

 Chl.-kor. Bulgarska akademiia na naukite, Sofiia. (India--Science)

MARISTOV, KHr. Ya. (Sofiya)

Equation of the diffusion of single-velocity isotropically scattering neutrons in the one-dimensional stationary case. Zhur. vych. mat. i mat. fiz. 1 no.5:825-835 S-0 '61.

(Integrodifferential equations)
(Neutrons—Scattering)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

Seviet physicist L.D. Landau, winner of the 1962 Nobel prize for physics. Fiz mat spisanie BAN 5 no.4:305-306 162.

A more precise definition of the

A more precise definition of the empirical method for the determination of meteorologic corrections in cosmic radiation. Godishnik fiz mat 55 no.2:139-155 '60/'61 [publ. '62].

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

L 22122-66 EVT(1)
ACC NR: AP6004922

SOURCE CODE: UR/0056/66/050/001/0076/0077

AUTHOR: Kirillova, L. F.; Nikitin, V. A.; Sviridov, V. A.; Strunov, L. N.; Shafranova, M. G.; Korbel, Z.; Rob, L.; Zlateva, A.; Markov, P. K.; Todorov, T.; Khristov, L.; Chernev, Kh.; Dalkhazhav, N.; Tuvdendorzh, D.

ORG: Kirillova; Nikitin; Sviridov; Strunov; Shafranova Joint Institute of Nuclear Research, Dubna (Ob"yedinennyy institut yadernykh issledovaniy); Korbel; Rob/ Czechoslovakian Higher Technical School, Prague (Chekhoslovatskoye Vyssheye tekhnicheskoye uchilishche); Zlateva; Markov; Todorov; Khristov; Chernev/ Fhysics Institute, Bulgarian Academy of Sciences, Sofia (Fizicheskiy institut Bolgarskoy Akademii nauk); Dalkhazhav; Tuvdendorzh/ Institute of Chemistry and Physics, Mongolian Academy of Sciences, Ulan-Bator (Institut khimii i fiziki Mongol'skoy Akademii nauk)

TITLE: Real part of the pp elastic scattering amplitude at 2, 4, 6, 8, and 10 Gev

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 76-77

TOPIC TAGS: proton scattering, elastic scattering, scattering amplitude, differential cross section, nuclear scattering Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

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L 22122-66

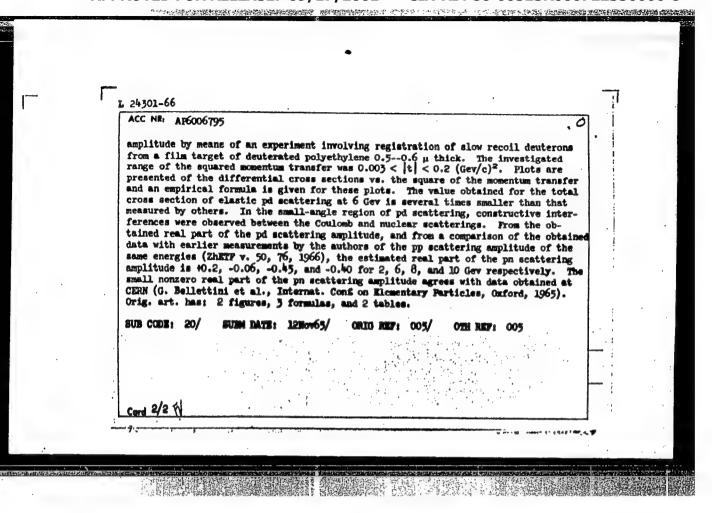
ACC NR: AP6004922

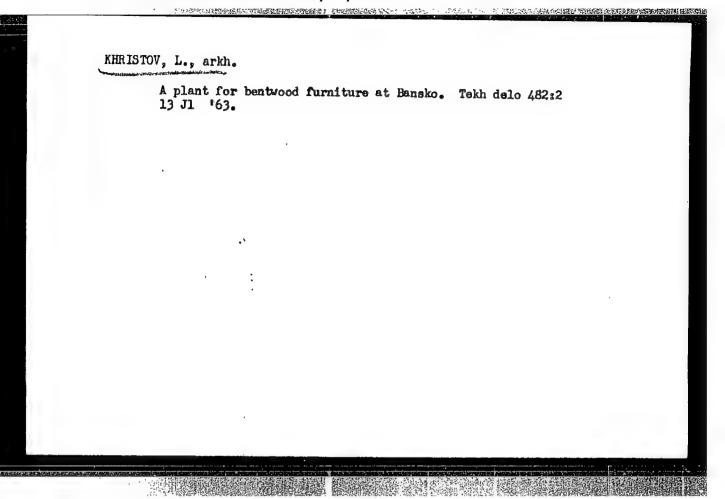
ABSTRACT: This is a continuation of earlier work by the authors (Phys. Lett. v. 13, 93, 1964) in which they present results of the measurements of the real part of the nuclear elastic scattering amplitude for an energy of 4 Gev, and more precise data for energies 2, 6, 8, and 10 Gev, taking into account the relativistic corrections. The experimental technique was described elsewhere (PTE no. 6, 18, 1963). The differential cross section was measured in the interval 0.003 < |t| < 0.2 (Gev/c)² (t = momentum transfer squared). The analysis of the obtained data as well as those reported by others was based on the Bethe formula (Ann. of Phys. v. 3, 190, 1958) with allowance for radiative corrections. The results agree well with the theoretical curve proposed by Soding (Phys. Lett. v. 8, 286, 1963), up to an energy of 20 Gev, above which some discrepancy appears. Orig. art. has: 1 figure and 2 formulas.

SUB CODE: 20/ SUBM DATE: 25Aug65/ ORIG REF: OOL/ OTH REF: 008

Card 2/2 BK

24301-66 ENT(m) DIAAP	170
ACC NR: A16006795	SOURCE CODE: UR/0386/66/003/001/0015/0021
AUTHOR: Zolin, L. S.; Kirillova, L	F.; Liu, Ch'ing-ch'iang; Nikitin, V. A.; Pantu-
yev, V. S.; Sviridov, V. A.; Struno	Y. L. N.; Khachaturyan, M. N.; Shafranova, M. G.;
Kh.; Dalkhazhay, N.; Tuydendorzh, D.	Zlatanov, Za; Markov, Pa; Khristov, La; Chernev,
	in, Pantuyev, Sviridov, Strunov, Khachaturyan,
Shafranova) Joint Institute of Mucl	ear Research. Dubna (Ob"yedinennyy institut yader-
nykh issledovaniy); [Korbel, Rob] C (Cheshskove vyssheve tekhnicheskove	zechoslovakian Higher Technical School, Prague uchilishche); [Devinski, Zlatanov, Markov, Khris-
tov, Cherney Physics Institute, Bu	lgarian Academy of Sciences, Sofia (Fizicheskiy
institut Bolgarskoy akademii nauk); and Chemistry, Mongolian Academy of	[Dalkhazhav, Tuvdendorzh] Institute of Physics Sciences, Ulan Bator (Institut fiziki i khimii
Mongol skoy akademii nauk)	18
MITLE: Real part of the pn scatter:	ing amplitude in the energy interval 210 Gev
SOURCE: Zhurnal eksperimental noy : Prilozheniye, v. 3, no. 1, 1966, 15-	i teoreticheskoy fiziki. Pis'ma v redaktsiyu. -21
MOPIC TAGE: proton scattering, new tial cross section, deuteron reaction	tron scattering, scattering amplitude, differen-
cattering in the energy interval 1-	ntal data obtained by the authors on elastic pd 10 Gev, and information on pp scattering ampli- ors determined the real part of the scattering
Card 1/2	. 2





APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

KHRISTOV, L., arkhitekt

Enterprises for cellular concrete. Tekh dele 13 no.424:2 21 Ap *62.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

KHRISTOV, L., arkh.

A carpentry enterprise is under construction at the Iskur Station. Tekh delc no.440:1 25 Ag *62.

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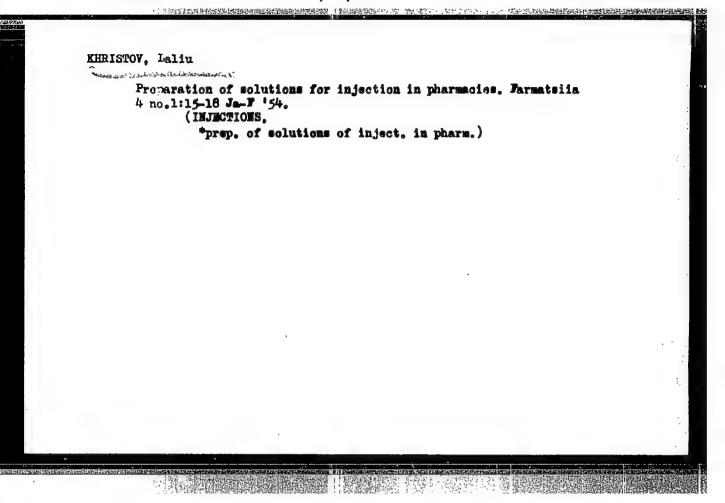
APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

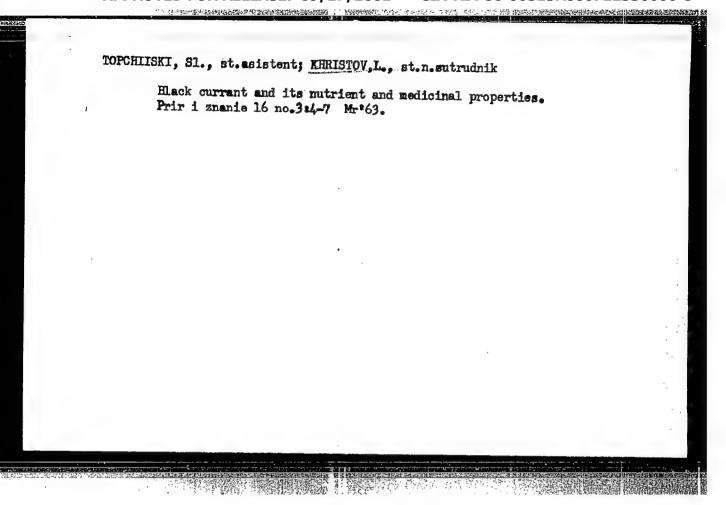
Shop for stone lining pavements in Plovdiv. Tekh delo 503 1 140 163.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

KHRISTOV, L., arkh.

A new shop for medical and fine household glassware. Tekh delo 499: 2 16 N 163.





CIA-RDP86-00513R000722330006-8 "APPROVED FOR RELEASE: 09/17/2001

BULGARIA / Cultivated Plants. Fruits, Berries,

The state of a second property of the state of the state

M-6

Nutbearing, Teas.

Abs Jour

: Ref Zhur - Biologiya, No 2, 1959, No. 6406

Author

: Khristov, Lulcho; Vorbanov, Tsvyatko : Not given

Inst

Title

: The State and Prospects of Fruit Cultivation Development in the Neighborhood of Vrachanska

Orig Pub

: Ovoshcharstvo i gradinarstvo, 1958, No 1, 10-16

Abstract

: No abstract given

Card 1/1

COUNTRY : BULGARLA CATEGORY : Guitivated Plants. Fruits. Berries. Ìч AES. JOUR. : RZhEiol., No. 23, 1958, No. 104367 AUTHOR : Khrlatov, L. INST. **第一届**经济的联系的基础的基础。 TITLE : Wild Strawberry Variety - Mitsi Shindler. ORIG. PUB. : Ovoshcharstvo i gradinarstvo, 1958, No. 4, 13-14 ARSTRACT : No abstract. CARD: 1/1

KHRISTOV. L.

The dependence of impulse force of a proportional counter upon the incident place of the ionizing particles. p. 113. (GODISHNIK. MATEMATIKA I FIZIKA, Vol. 49, No. 1, 1954/55 (published 1956), Sofia, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sep 1957. Uncl.

一个,但是我们的证据,我们就是我们是是是我们的,我们就是我们的,我们就是不是一个,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的人,一个一个,

KHERISTOV, L.

Gas intensification with proportional counters. p. 109. Sofia. Universitet. Fiziko-matematicheski fakultet. GODISMIK. MATEMATIKA I FIZIKA. Sofiya. Vol. 48, no. 1.

SOURCE: East European Accessions List, (EEAL) Library of Congress. Vol. 5, No. 8, August 1956.

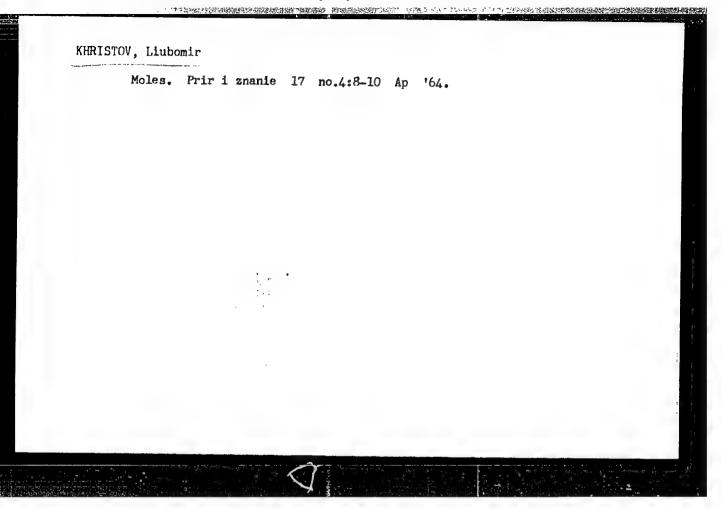
KHRISTOV, L., arkh.

A plant for the gypsum and gypsum products in the village Koshava, Vidin region. Tekh delo no.437:1 4 Ag '62.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

KHRISTOV, L., arkh.

The new shop for the reinforced-concrete sleepers in the State Cement Factory "Vulkan" at Dimitrovgrad. Tekh delo 13 no.430:1 9 Je 162.



KHRISTOV, Lulcho, starshi nauchen sutrudnik

Most suitable varieties of strawberry for the experiment gardens in the schools. Prir i znanie 14 no.4:1-2 Ap 161.

(EEAI 10:9/10)

1. Tsentralen nauchnoizsledovatelski institut po ovoshtarstvo krai gara Kostinbrod.

(Strawberries)

MHRISTOV, L.G.

BULGARIA/Electronics - Electrical Discharges in Gases and Gas H_7 Dischargo Apparatus.

hbs Jour : Ref Zhur - Fizka, No 11, 1958, No 25725

* Hristov L.G. Author

Inst

s On the Dependence of the Ges Amplification Factor with Pro-Title portional Counter Voltage.

Orig Fub : Dokl. Bolg. AN 1957, 10, No 6, 453-456

Abstract : An approximate derivation is given for a formula for the derendence of the ges emplification factor K and the quentities that are characteristic of cylindrical proportional counters in the interval of K values from 20 br 30 to 103 or 104.

Cerd : 1/1

35



S/058/62/000/006/012/136 A061/A101

AUTHORS:

Zlateva, A. I., Markov, P. K., Peyeva, A. T., Khristov, L. C.

Chernev, Kh. M.

TITLE:

Elastic proton-proton scattering under small angles at 6.2-Bev

energy

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 6, 1962, 29, abstract 6B207

("Dokl. Bolg. AN", 1961, v. 14, no. 5, 443 - 446, English summary)

TEXT: Elastic p-p scattering at 6.2-Bev energy under angles of 1°.2 - 11°.5 in the center-of-mass system has been studied using a photoemulsion chamber irradiated by the internal proton beam of the ONAM (OIYAI) proton synchrotron. An irradiation geometry has been used, in which the incident flux is perpendicular to the plane of the emulsion layers. This experimental arrangement permits the efficient recording of p-p scattering down to very small angles, and a reliable singling out of background events. In all, 141 cases of elastic p-p scattering have been singled out. The results are compared with the differential section under zero angle, calculated by the optical theorem using the full sec-

Card 1/2

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722330006-8

Elastic proton-proton scattering...

S/058/62/000/006/012/136 A061/A101

tion of p-p interaction. Conclusions on the presence of a real part in the scattering amplitude or on its dependence on the spin state will be possible only after the statistical basis has been extended.

V

[Abstracter's note: Complete translation]

Card 2/2

ACCESSION NR: AT4017777

B/2503/63/011/01-/0101/0104

AUTHOR: Zlatanov, Z. M.; Kanazirski, Kh. M.; Markov, P. K.; Khristov, L. G.

TITLE: Elastic scattering of protons by deuterons at small angles at 6.2 GeV

SOURCE: B"lgarska Akademiya na Naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB (News of the Institute of Physics and the Atomic Energy Scientific Research Foundation), v. 11, no. 1-2, 1963, 101-104

TOPIC TAGS: scattering, elastic scattering, proton, deuteron, synchrophasotron, photoemulsion

ABSTRACT: The photoemulsion method was used to investigate elastic p-d scattering at 6.2 GeV. A stack, 9 cm in diameter and 2 cm thick, consisting of 29 emulsion layers of the NIKFI-HR type saturated with heavy water, was irradiated by the internal proton beam of the OIYAI /United Nuclear Research Institute/ synchrophasotron at Dubna. The incident beam was perpendicular to the surface of the layers, and had an average density (4.13 + 0.08)·105 protons per sq. cm. The scanning, the measurements and identification of instances of elastic scattering were performed according to the methodology described by V. B. Lyubimov, P. K. Markov, E. N. Tsyganov, Chrhen Pu-in and M. G. Shafranova (ZhETF, 37, 910, 1959). A total of 140

Card 1/47

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CIA-RDP86-00513R000722330006-8

ACCESSION NR: AT4017777

instances of elastic scattering were found. The differential cross section obtained is shown in Table 1 and Figure 1 of the Enclosure. The cross section of elastic p-d scattering in the angular interval 1.5°--7.5° c.m.s. was found to be $\mathcal{O} = (8.41 + 0.73)$ mb/sterad. The screening coefficient of deuteron was found to be 9%. "The authors cordially thank the Directorate of OIYaI [Obedineniya institut za yadreni izsledvaniya; United Nuclear Research Institute] for the irradiation and chemical treatment of the photoemulsion stack, and M. G. Shafranova for assistance rendered in the work." Orig. art. has: 4 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: OHMATGH

ENCL: 02

SUB CODE: PH

NO REF SOV: 003

THER: 001

Card 2/47

 ACCESSION NR: AP4042553

S/0056/64/046/006/1964/1966

AUTHORS: Zlatanov, Z. M.; Kanazirski, Kh. M.; Mincheva, L. D.; Khristov, L. G.

TITLE: Elastic proton deuteron scattering at 6.2 GeV

THE PROPERTY OF THE PROPERTY O

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 1964-1966

TOPIC TAGS: proton scattering, deuteron bombardment, heavy water, nuclear emulsion, elastic scattering, reaction energy

ABSTRACT: With an aim at increasing the statistical accuracy of earlier work (Z. M. Zlatanov, Kh. M. Kanazirski, P. K. Markov, L. G. Khristov, Izv. Fiz. instituta ANEB, v. 11, 101, 1963) the authors used a pellicle stack of 29 type NIKFI-B or emulsion of initial thickness 400µ, three pellicles of which were impregnated with heavy water and the remainder with ordinary water. The stack was irradiated by the internal proton beam of the OIYaI proton synchrotron per-

Card 1/3

ACCESSION NR: AP4042553

pendicular to the emulsion plane. A total of 20.16 cm was areascanned at a magnification of 630 x. Altogether 267 cases of elastic pp scattering were obtained. The differential cross section values are given for the c.m.s. range 2--9.5°. The value obtained for the elastic scattering is $\sigma_{\rm el}=12.6\pm1.4$ mb, and for the effective

radius of pd interaction $R = (2.0 \pm 0.1) \times 10^{-13}$ cm. Orig. art. has: 2 formulas, 1 figure, and two tables. "The authors are grateful to the OIYaI management for cooperation and to M. G. Shafranov and P. K. Markov for help with the work."

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 30Dec63

DATE ACQ:

ENCL: 01

SUB CODE: NP

NR REF SOV: 004

OTHER: 004

Card 2/3

ACCESSION NR: AP4042553

ENCLOSURE: 01

Scanning efficiency ϵ , number \underline{n} of elastic scattering pd events, and differential scattering cross section

CMB dec	n	£.	dilini, diperipadi mo/sr
2,0-3,5 3,5-5,5 5,5-7,5 7,5-9,5 >9,5	88 103 53 16	0,90±0,03 0,90±0,03 0,80±0,04 0,87±0,07	359±41 186±20 70±10 22±6

The same for pp scattering

O _{C. II. II.} , spad	n		ds/dΩ, мвн/стерад	da/dQ, мби/стерав [1]
2,5 2,5—6,5 6,5—10,5 >10,5	15 12 6	0,90 0,74	58,5±15 30,1±0	65,7±0 33,8±5

Card 3/3

KIRILLOVA. L.F.; NIKITIN, V.A.; PANTUYEV, V.S.; SVIRIDOV, V.A.; STRUNOV, L.N.; KHACHATURYAN, M.N.; KHRISTOV, L.G.; SHAFRANOVA, M.G.; KCREEL, Z.; ROB,L.; DAMYANOV, S.; ZLATEVA, A.; ZLATANOV, Z.; YORDANOV, V. [Iordanov,V.]; KANAZIRSKI, Kh.; MARKOV, P.; TODOROV, T.; CHERNEV, Kh.; DALKHAZHAV, N.; TUVDENDORZH, D.

Elastic pp and pd-scattering at small angles in the energy range 2 - 10 Bev. IAd. fiz. 1 no.3:533-539 Mr '65. (MIRA 18:5)

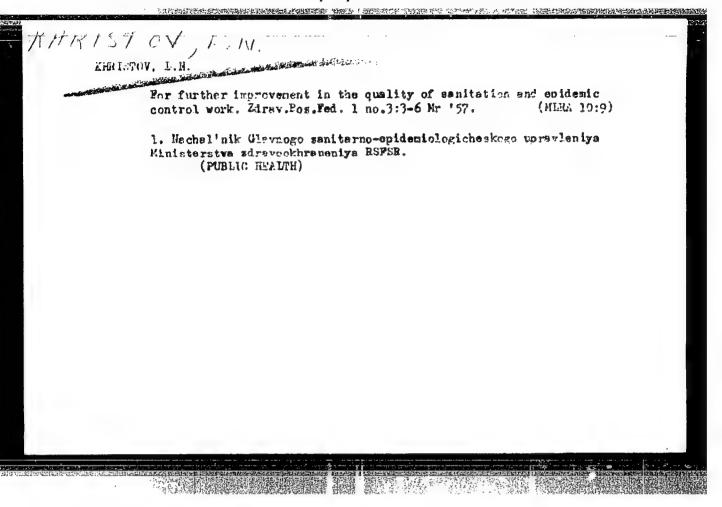
1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Vyssheye tekhnicheskoye uchilishche, Praga (for Korbel, Rob). 3. Fizicheskiy institut Bolgarskoy Akademii nauk, Sofiya (for Damyanov, Zlateva, Zlatanov, Yordanov, Kanazirski, Markov, Todorov, Chernev). 4. Institut khimii i fiziki, Ulan-Bator, Mongol'sakaya Narodnaya Respublika (for Dalkhazhav, Tuvdendorzh).

""生工学的,我们是一个人的,我们就是一个人的,我们就是一个人的人的人的人,这个人的人的人,我们就是一个人的人的人的人的人,我们就是一个人的人的人的人,我们就是一个人的人

KHRISTOV, L.N.; BEZVERKHIY, G.S.; SHULYAPIN, I.Ya.

Apparatus for cultivation of tissues in rotating test tubes. Vop. virus. 1 no.3:56-58 My-Je *56. (MIRA 10:1) (TISSUE CULTURE, apparatus and instruments, apparatus for cultivation of tissues in rotating test tubes (Rus))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"



ZEDANOV, V.; KHRISTOW L.; MURAV'YEV, M.; RYZHOV, A.; VASHKOV, V.; FEDOSOVA, A.
POGODINA, L.; KIECHTOVA, A.; SUBROTIN, A.; ZAKHAROVA, Ye.; GAHDEL'SMAN, B.; SAZONOVA, N.; ZEVAKINA, I.; KUDRINSKIY, I.; MISKAROV, D.;
KHAHEYA, P.

Professor A.N.Tregubov; obituary, Gig. i san. 21 no.10:63 0 '56.
(MIRA 9:11)

(THEGUBOV, ALEKSANDR HIKOLAEVICH, 1888-1956)

A THE PROPERTY OF THE PROPERTY

ZHDANOV, V.M., prof., obshchiy red.; BOL'SHAKOVA, M.D., red. (Moskva); GORO-MOSOV, M.S., red. (Moskva); GROMBAKH, S.M., red. (Moskva); KIENOVA, Ye.V., red. (Moskva); ORLOV, N.I., prof., red. (Moskva); RYABOV, V.M., red. (Moskva); RYAZANOV, V.A., prof., red. (Moskva); CHERKINSKIY, S.M., prof., red. (Moskva); KHRISTOV, L.N., red.; BEL'CHIKOVA, Yu.S., tekhn, red.

[Proceedings of the Thirteenth All-Union Congress of Hygienists.

Epidemiologists, Microbiologists, and Infectious Disease Specialists]

Trudy Vsesoiuznogo sezda gigienistov, epidemiologov, mikrobiologov i infektsionistov. Vol.1. [Problems of hygiene] Voprosy gigieny.

1959. 727 p. (MIRA 12:12)

1. Vsesoyuznyy s yezd gigiyenistov, epidemiologov, mikrobiologov i infektsionistov. 13th, Moscow, 1956. 2. Zamestitel ministra zdravo-okhraneniya SSSR (for Zhdanov).

(PUBLIC HEALTH--CONGRESSES)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330006-8"

D. 1995年 - 112 1997年 - 12 Add Edition (1995年) 12 Edition (1995年)

ZHDANOV, V.M., red.; VASHKOV, V.I., red.toma. V redakt.toma prinimali uchastiye: ZAKHAROVA, M.S.; KUDLAY, D.G.; PAVLOV, P.V.; HUDNEV, G.P.; TIMAKOV, V.D.; TROITSKIY, V.L.; CHRISTOV, L.N., NECHAYEV, S.V., red.; BEL'CHIKOVA, Yu.S., tekhn.red.

。 1975年1月1日 - 1975年 -

[Proceedings of the 13th All-Union Congress of Hygienists, Epidemiologists, Microbiologists, and Specialists in Infectious Diseases, Moscow, 1956] Trudy Translusnogo stade gigienistov, epidemilogov, mikrobiologov i infektsionistov. Pod red. V.M. Zhdanova. Moskva, Gos.izd-vo med.lit-ry. Vol.2. [Section on epidemiology, microbiology, infectious diseases and the organisation of public health service] Otdelenie epidemiologii, mikrobiologii, infektsionnykh boleznei i organizatsii zdravo-okhraneniia. Pod red. V.I.Vashkova. 1959. 866 p. (MIRA 12:11)

1. Vsesoyuznyy swyezd gigiyenistov, epidemiologov, mikrobiologov i infektsionistov. 13th, Moscow, 1956.

(MICROBIOLOGY—CONGRESSES)

STATE TO THE OWNER THE PROPERTY OF THE STATE OF THE STATE

KRISTOV, L. N.

"Basic problems of organizing a sanitary-epidemiological service."

Report submitted at the 13th All-Union Congress of Hygienists. Epidemiologists and Infectionists. 1959

ZHDANOV, V.M., red.; VASHKOV, V.I., red.; ZAKHAROVA, M.S., red.;
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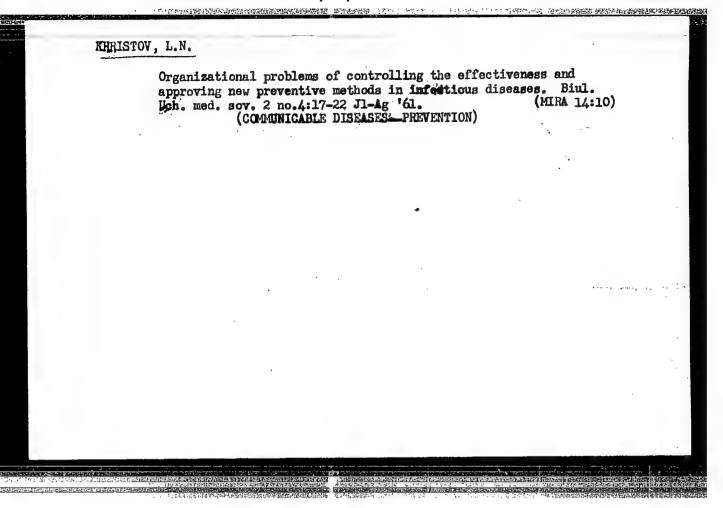
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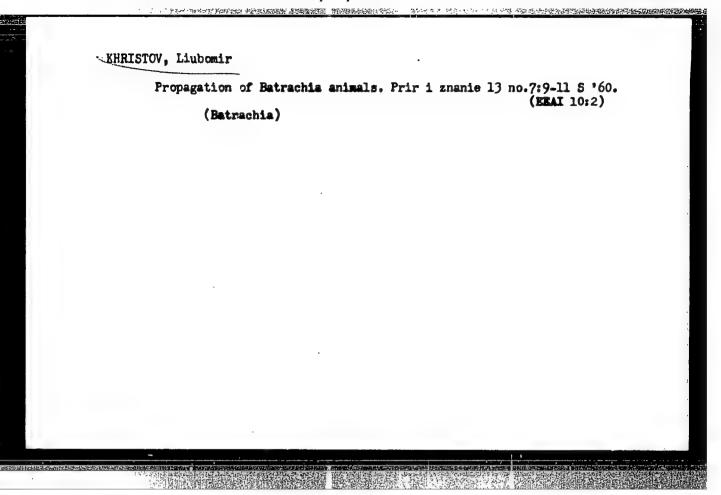
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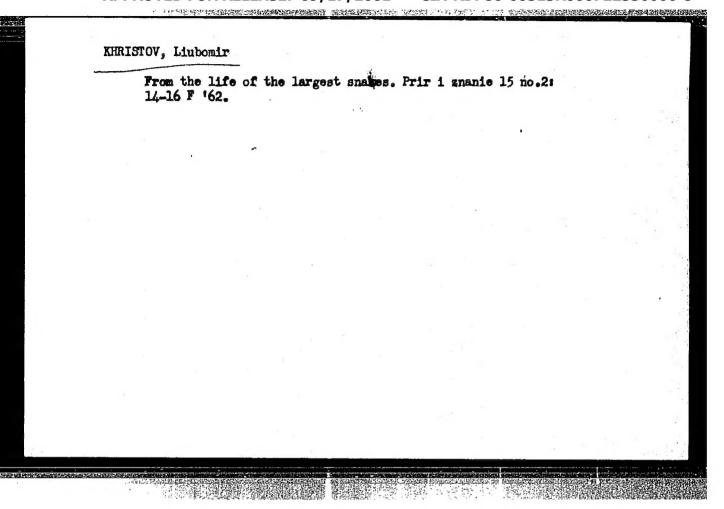


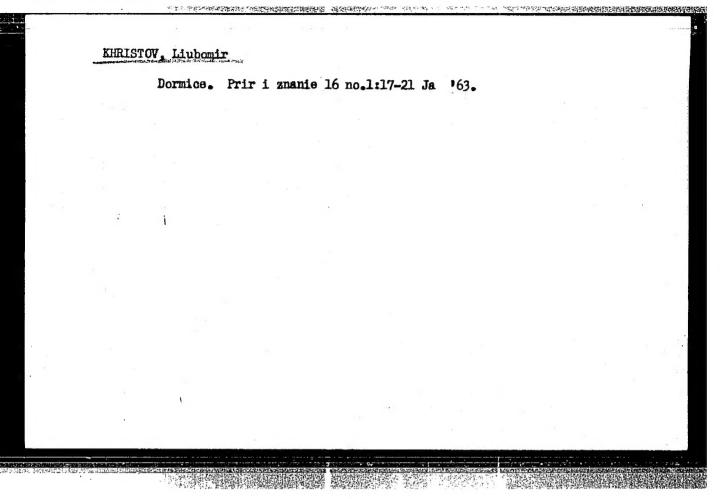
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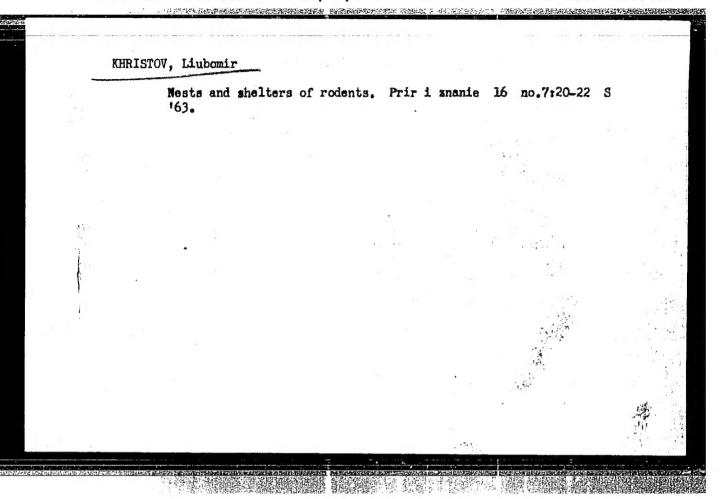
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